

Datasheet: AHP1734

BATCH NUMBER 160659

Description:	RABBIT ANTI HUMAN TGF BETA
Specificity:	TGF BETA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			5ug/ml
ELISA	▪			1/2000 - 1/10000
Western Blotting	▪			1/200 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Rabbit, Mouse, Rat

Based on sequence similarity, is expected to react with: Mammals

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to Human TGF-beta1 were raised by repeated immunisation of Rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.4 mg/ml.
Immunogen	A synthetic peptide corresponding to amino acids 286-293 of the human TGF-beta precursor protein.
External Database Links	<p>UniProt: P01137 Related reagents</p> <p>Entrez Gene: 7040 TGFB1 Related reagents</p>
Synonyms	TGFB
RRID	AB_2222443
Specificity	<p>Rabbit anti Human TGF beta antibody recognizes human Transforming Growth Factor Beta 1 (TGF-beta1), a 390 amino acid secreted protein belonging to the TGF-beta family.</p> <p>TGF-beta1 is a multifunctional protein that controls proliferation, differentiation and other functions in a wide range of cell types and both positively and negatively regulates many other growth factors. TGF-beta1 also plays an important role in bone remodelling through stimulation of oestoblastic bone formation causing chemotaxis, proliferation and differentiation in committed osteoblasts.</p> <p>Defects in TGFB1 are the cause of Camurati-Engelmann disease (CED), also known as progressive diaphyseal dysplasia 1 (Kinoshita et al. 2000).</p>
Histology Positive Control Tissue	Human spleen
References	<ol style="list-style-type: none"> Geng, H. <i>et al.</i> (2012) Lysophosphatidic acid increases proximal tubule cell secretion of profibrotic cytokines PDGF-B and CTGF through LPA2- and Gαq-mediated Rho and αvβ6 integrin-dependent activation of TGF-β. Am J Pathol. 181: 1236-49. Polichnowski, A.J. <i>et al.</i> (2014) Severe renal mass reduction impairs recovery and promotes fibrosis after AKI. J Am Soc Nephrol. 25 (7): 1496-507. Moore, L.B. <i>et al.</i> (2015) Loss of monocyte chemoattractant protein-1 alters macrophage polarization and reduces NFκB activation in the foreign body response. Acta Biomater. 11: 37-47. Tark, K.C. <i>et al.</i> (2015) Effects of ginsenoside Rb1 on hypertrophic scar remodeling in rabbit model. Eur J Pharmacol. 750C: 151-59.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/AHP1734 10094
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M389162:210806'

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